



Serial No. 10/772,597

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Patent No. 7,337,383 B1
Application No. 10/772,597
Issue Date: Feb. 26, 2008
Inventor(s) Urbain A. von der Embse

Request for Certificate of Correction

I am requesting that 2 errors be corrected in the issued patent. The first error is my spelling error in the title of FIG. 5. In the second error, the patent office did not include page 2 of the clean version of the claims in my submittal. Enclosed is the \$100 fee.

ENCLOSURES

- PTO/SB/21 Transmittal form
- 3 PTO/SB/44 forms
- PTO-2038 fee payment by credit card

**Certificate
APR 03 2008
of Correction**

Sincerely,

Urbain A. von der Embse

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CERTIFICATE OF CORRECTION

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PATENT NO. : 7,337,383 B1

APPLICATION NO: 10/772,597

ISSUE DATE : Feb. 26, 2008

INVENTOR(S) : Urbain Alfred von der Embse

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the drawings, Sheet 5, the word "our" in the title should be corrected to read "of".

In Claim 1, column 20, after line 43 please insert the missing page 2 of the submitted clean version of the Claims, which reads as follows:

"for evaluating said a-posteriori probability $p(s' | y(j < k))$ in equations (14) using $p(s | s', y(k))$ as the state transition a-posteriori probability of the trellis transition path $s' \rightarrow s$ to the new state s at k from the previous state s' at $k-1$ and given the observed symbol $y(k)$ to update these recursions for the assumed value of the user data bits $d(k)$ equivalent to the transmitted symbol $x(k)$ which is the modulated symbol corresponding to $d(k)$, using a turbo decoding backward recursion equation

$$p(s' | y(j > k-1)) = \sum_{all s} p(s | y(j > k)) p(s' | s, y(k))$$

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

for evaluating the a-posteriori probability $p(s|y(j>k))$ in equations (15) using said $p(s'|s,y(k))=p(s|s',y(k))$ as the state transition a-posteriori probability of the trellis transition path $s \rightarrow s'$ to the new state s' at $k-1$ from the previous state s at k and given said observed symbol $y(k)$ to update these recursions for said assumed value of $d(k)$, evaluating the natural logarithm of the state transition posteriori probability $p(s|s',y(k))=p(s'|s,y(k))$ equal to a new decisioning metric DX in equations (11),(16), defined by equation

$$\begin{aligned}\ln[p(s|s',y(k)) &= \ln[p(s'|s,y(k))]] \\ &= \operatorname{Re}[y(k)x^*(k)]/\sigma^2 - |x(k)|^2/2\sigma^2 + p(d(k)) \\ &= DX\end{aligned}$$

wherein p is the natural logarithm \ln of p , x^* is the complex conjugate of x , and $\ln[o]$ is the natural logarithm of $[o]$,

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whereby said new state transition probabilities in said MAP equations use said DX linear in $y(k)$ in place of the current use of the maximum likelihood decisioning metric"

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